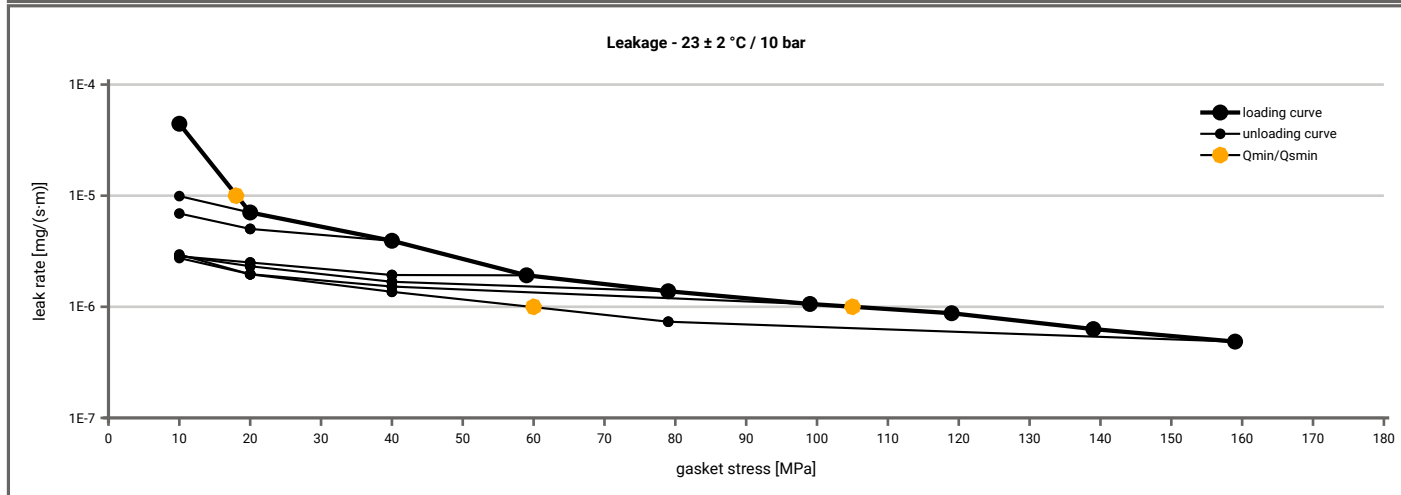
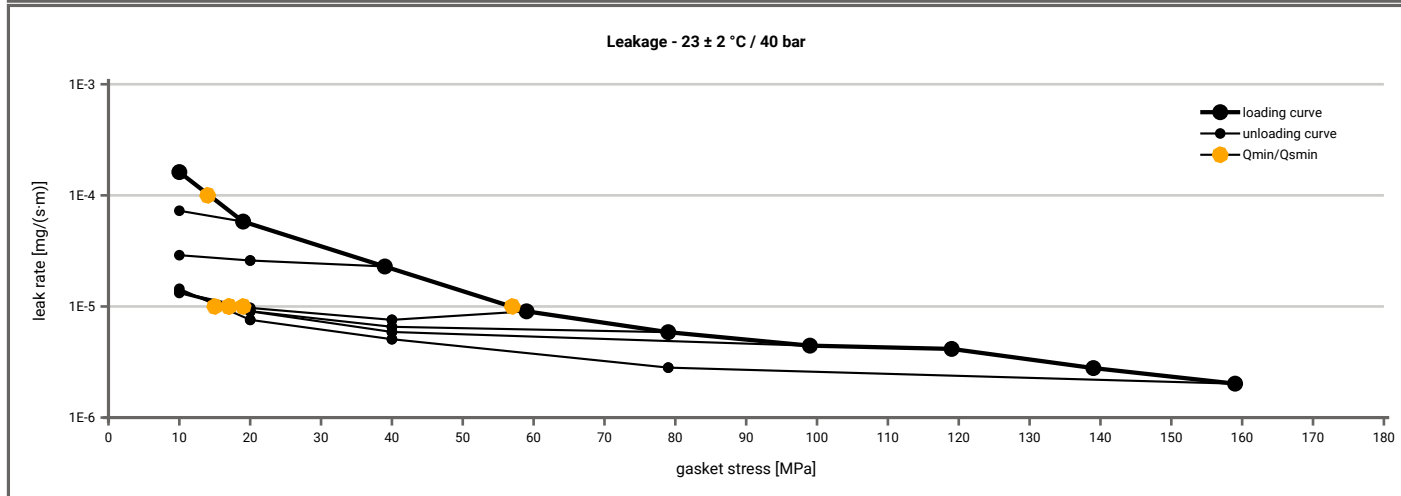


Manufacturer address	revoseal Europe GmbH, Industriestr. 1, 50259 Pulheim, DE	According to DIN EN 13555 2014-7
Product name	Revolution with PTFE	
Product dimensions	69 x 57 x 1.2 mm (DIN EN 1514-4 1997-8)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 10$ bar ($T = 23 \pm 2$ °C)										
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]								
		$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 140$ [MPa]	$Q_A = 160$ [MPa]
1E-0	10		10	10	10	10	10			10
1E-1	10		10	10	10	10	10			10
1E-2	10		10	10	10	10	10			10
1E-3	10		10	10	10	10	10			10
1E-4	10		10	10	10	10	10			10
1E-5	18		10	10	10	10	10			10
1E-6	106									60
1E-7										
1E-8										



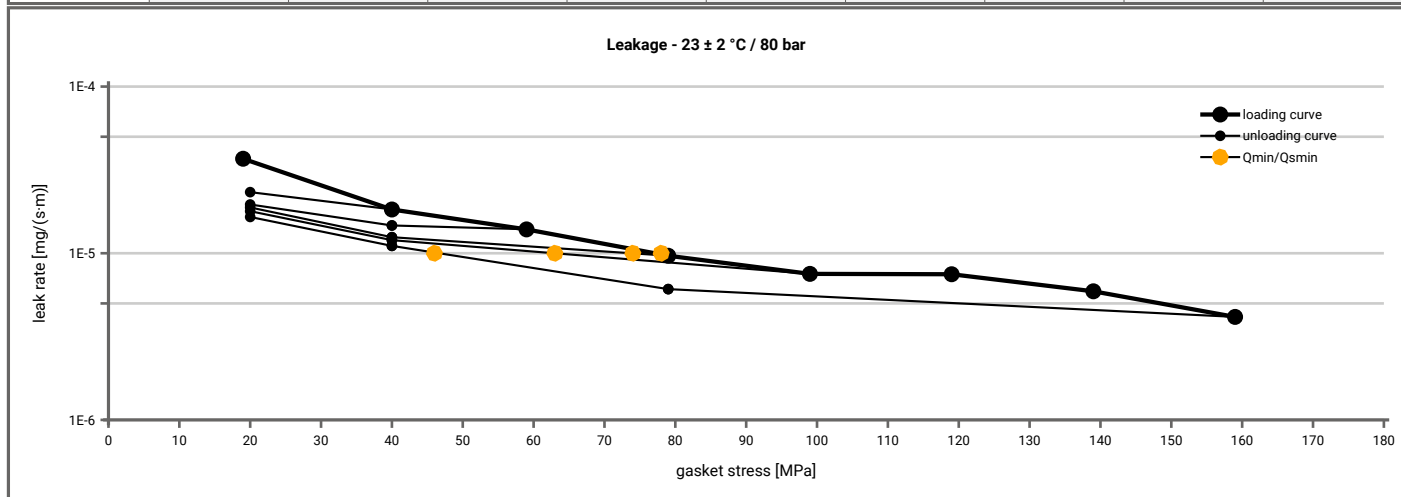
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40$ bar ($T = 23 \pm 2$ °C)										
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]								
		$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 140$ [MPa]	$Q_A = 160$ [MPa]
1E-0	10		10	10	10	10	10			10
1E-1	10		10	10	10	10	10			10
1E-2	10		10	10	10	10	10			10
1E-3	10		10	10	10	10	10			10
1E-4	15		10	10	10	10	10			10
1E-5	58				19	18	17			16
1E-6										
1E-7										
1E-8										



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 1	Creation date of this sheet: 2018-05-08
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Manufacturer address	revoseal Europe GmbH, Industriestr. 1, 50259 Pulheim, DE	According to DIN EN 13555 2014-7
Product name	Revolution with PTFE	
Product dimensions	69 x 57 x 1.2 mm (DIN EN 1514-4 1997-8)	

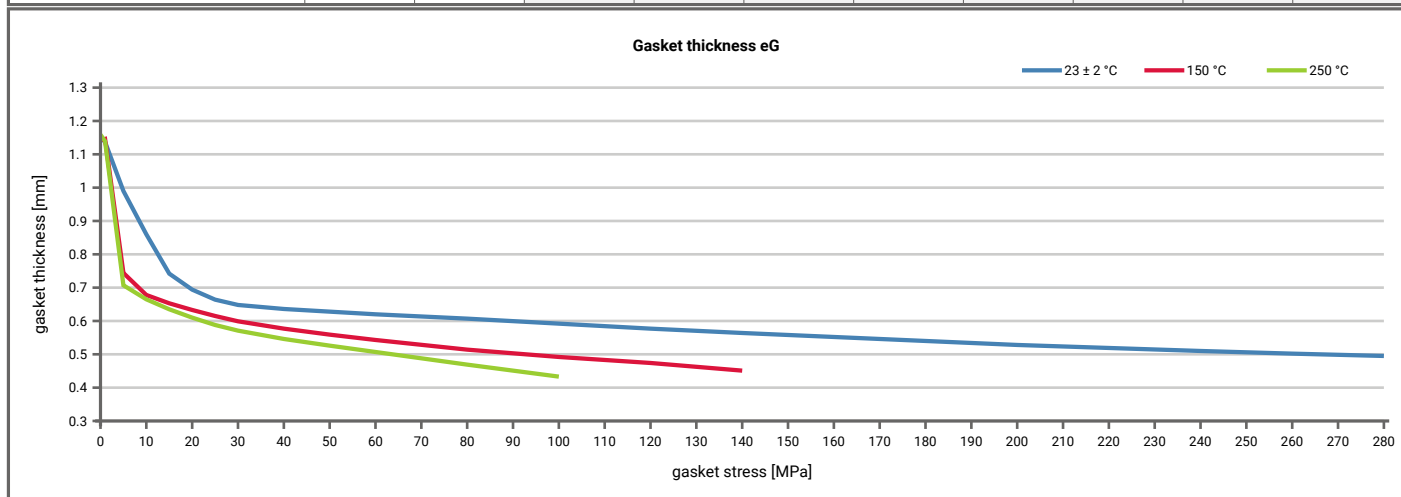
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 80 \text{ bar}$ ($T = 23 \pm 2 \text{ }^{\circ}\text{C}$)									
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]							
		$Q_A = 20 \text{ [MPa]}$	$Q_A = 40 \text{ [MPa]}$	$Q_A = 60 \text{ [MPa]}$	$Q_A = 80 \text{ [MPa]}$	$Q_A = 100 \text{ [MPa]}$	$Q_A = 120 \text{ [MPa]}$	$Q_A = 140 \text{ [MPa]}$	$Q_A = 160 \text{ [MPa]}$
1E-0	20		20	20	20	20			20
1E-1	20		20	20	20	20			20
1E-2	20		20	20	20	20			20
1E-3	20		20	20	20	20			20
1E-4	20		20	20	20	20			20
1E-5	78				75	63			47
1E-6									
1E-7									
1E-8									



Manufacturer address	revoseal Europe GmbH, Industriestr. 1, 50259 Pulheim, DE	According to DIN EN 13555 2014-7
Product name	Revolution with PTFE	
Product dimensions	69 x 57 x 1.2 mm (DIN EN 1514-4 1997-8)	

Relaxation ratio P_{QR} for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [150 °C]		Temperature 2 [250 °C]					
	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]
Stress level 1 [70 MPa]	0.93	12	0.74	43	0.75	42				
Stress level 2 [100 MPa]			0.77	56	0.73	64				
Stress level 3 [180 MPa]	0.97	13								
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	0.99	7	0.80	67	0.73	64				
Q_{smax}	280 MPa		140 MPa		100 MPa					

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	23 ± 2 °C		Temperature 1 [150 °C]		Temperature 2 [250 °C]					
	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]
0	0	1.150	0	1.142	0	1.159				
1	0	1.137	0	1.146	0	1.139				
5	135	0.990	40	0.744	45	0.707				
10	236	0.860	117	0.678	139	0.665				
15	390	0.742	338	0.653	329	0.635				
20	698	0.694	649	0.633	508	0.610				
25	827	0.664	940	0.615	659	0.588				
30	1213	0.648	1168	0.599	813	0.571				
40	2401	0.636	1693	0.577	1133	0.546				
50	3670	0.628	2124	0.559	1455	0.526				
60	4591	0.620	2814	0.543	1935	0.507				
80	5416	0.607	4381	0.514	2625	0.469				
100	6099	0.592	5958	0.492	3986	0.433				
120	7247	0.577	8347	0.474						
140	8339	0.564	11253	0.451						
160	9398	0.552								
180	10209	0.540								
200	11926	0.528								
220	12261	0.519								
240	14200	0.510								
260	15258	0.502								
280	16918	0.495								



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